

Adding and Subtracting Fractions

A common denominator is needed!

$$\text{Ex.1: } \frac{2}{5} - \frac{3}{5} = -\frac{1}{5}$$

$$\begin{aligned}\text{Ex.2: } \frac{2}{5} + \frac{3}{10} &= \frac{2 \times 2}{2 \times 5} + \frac{3}{10} \\ &= \frac{4}{10} + \frac{3}{10} \\ &= \frac{7}{10}\end{aligned}$$

$$\begin{aligned}\text{Ex.3: } \frac{2}{5} - \left(-\frac{1}{3}\right) &= \frac{3 \times 2}{3 \times 5} + \frac{1 \times 5}{3 \times 5} \\ &= \frac{6}{15} + \frac{5}{15} \\ &= \frac{11}{15}\end{aligned}$$

$$\begin{aligned}\text{Ex.4: } 1\frac{2}{5} + \left(-3\frac{1}{4}\right) &= \frac{7 \times 4}{5 \times 4} - \frac{13 \times 5}{4 \times 5} \\ &= \frac{28}{20} - \frac{65}{20} \\ &= -\frac{27}{20}\end{aligned}$$